

### ABSTRACT OF THE DISCLOSURE

A method and system for trimming a feature on a substrate. During a chemical treatment of the substrate, the substrate is exposed to a reactive gaseous chemistry, such as HF/NH<sub>3</sub>, under controlled conditions. An inert gas can also be introduced with the reactant gaseous chemistry. A process model is developed for an aspect of the first reactant, an aspect of the second reactant, and an aspect of the optional inert gas. Upon specifying a target trim amount, the process model is utilized to determine a process recipe for achieving the specified target.